This diagram shows the distribution of the main West German combat formations in Allied Forces Central (AFCENT) Command and their relationship to other NATO Allied formations such as Northern Army Group (NORTHAG) and Central Army Group (CENTAG). There was one other corps-sized territorial formation east of the River Elbe, but that came under AFNORTH Command and is shown on the next page.

There was serious consideration, particularly during the late 1980s, given to forming a Southern Army Group (SOUTHAG) in southern Germany, with the French 1st Army HQ adopting the role of HQ SOUTHAG. Some sources suggest that this formation would have consisted of the II (Ge) Corps and elements of the Southern Territorial Command, plus at least one French Corps and probably one of the two US Corps, plus the Spanish 'Brunete' Armoured Division. Other sources suggest that both French Corps would have gone to SOUTHAG, with both US Corps remaining in CENTAG. This may also have involved the French Force d'Action Rapide (FAR), though that had previously been slated to support NORTHAG. A large-scale exercise was held to test this concept in 1987.

There was a contingency plan for the Spanish 1st 'Brunete' Armoured Division to march up through France to reinforce CENTAG or SOUTHAG. However, no exercises along the lines of REFORGER were held to test this plan.

The 4th Canadian Mechanised Brigade Group (4 CMBG) normally came under the command of US VII Corps, though did frequently come under command of II (Ge) Corps during exercises. From 1988, the Canadian commitment to the defence of West Germany was expanded to a full division (1st Canadian Infantry Division) of two brigades. However, 4 CMBG remained the only Canadian formation permanently deployed in Germany, while 1 CMBG and divisional HQ and support elements would have to reinforce during the build-up to war.
The considerable military obstacle of the River Elbe meant that it made more military sense for the West German Schleswig-Holstein Territorial Command to come under the command of Allied Forces Northern (AFNORTH) Command and the Danish-led LANDJUT Command.

The LANDJUT Command, which would also include British and US formations, was tasked in wartime with deploying forward into West Germany, to defend the approaches to Denmark and Hamburg.

The Panzer Training Unit at Castlemartin in West Wales, UK, was a full Panzer Battalion tasked with providing advanced gunnery training to Bundeswehr tank crews. The Welsh Atlantic coast allowed them to fire 105mm and 120mm APFSDS ammunition, which was not possible at any firing-range in Germany, due to the colossal danger area created by the extremely long range of this type of ammunition. The unit was equipped with Leopard 1 variants for most of the 1980s and in wartime was meant to provide replacement crews and tanks for the units stationed in West Germany. However, in the event of a surprise Soviet attack preventing movement to Germany, it may have been used to assist with defence of the UK.

These Security Battalions each had four Companies. Two battalions included a single 20mm AA Gun section in each company. The third battalion was designated as the ‘Guard Battalion’ and had a secondary ceremonial role. It had companies drawn from all the armed services and also had an integral Light AA Company, organised as ME CWWG-26, with four 20mm AA Gun sections.

These helicopters belong to the army aviation training school and test unit.
I (Ge) Corps (NORTHAG)

**BATTLEGROUP CWWG-01**
**1. Panzer-Division**
- BATTLEGROUP CWWG-06
  - Panzergrenadier-Brigade 1
- BATTLEGROUP CWWG-05
  - Panzer-Brigade 2
  - BATTLEGROUP CWWG-05
  - Panzer-(Lehr)-Brigade 9

**3. Panzer-Division (b)**
- BATTLEGROUP CWWG-06
  - Panzergrenadier-Brigade 7
- BATTLEGROUP CWWG-05
  - Panzer-Brigade 8 ‘Lüneberg’
- BATTLEGROUP CWWG-05
  - Panzer-(Lehr)-Brigade 9

**BATTLEGROUP CWWG-01**
**7. Panzer-Division**
- BATTLEGROUP CWWG-06
  - Panzergrenadier-Brigade 19 ‘Münsterland’
- BATTLEGROUP CWWG-05
  - Panzer-Brigade 20 ‘Markisches-Sauerland’
- BATTLEGROUP CWWG-05
  - Panzer-Brigade 21 ‘Lipperland’

**BATTLEGROUP CWWG-02**
**11. Panzergrenadier-Division**
- BATTLEGROUP CWWG-06
  - Panzergrenadier-Brigade 31
- BATTLEGROUP CWWG-06
  - Panzergrenadier-Brigade 32
- BATTLEGROUP CWWG-05
  - Panzer-Brigade 33 ‘Celle’

**BATTLEGROUP CWWG-11**
Luftlande-Brigade 27

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(a) Late 1980s: The Bo-105P PAH-1 Attack Helicopters may upgrade to HOT 2 ATGMs (see card).

(b) In wartime, 3. Panzer-Division was to be attached to the 1 (Netherlands) Corps.

(c) The role of the NBC Defence Battalion would normally fall outside the scope of ‘Battlefront: Modern’ games, though it’s worth mentioning that three of the battalion’s four companies had x4 FK-20-2 Twin 20mm Flak Guns (CWWG-52) apiece and would therefore carry out rear-area AA defence while simultaneously monitoring NBC-detection equipment.

(d) These units were for the protection of helicopter forward operating bases. Each Aviation Battalion and the Aviation Regiment HQ had a squadron each of Infantry and Flak.

(e) The Tactical Missile Battalion included large numbers of security personnel and 20mm flak guns.
II (Ge) Corps (CENTAG)

BATTLEGROUP CWWG-01
10. Panzer-Division
BATTLEGROUP CWWG-05
Panzerbrigade 29
BATTLEGROUP CWWG-05
Panzer-Brigade 30

BATTLEGROUP CWWG-02
4. Panzer-Grenadier-Division
BATTLEGROUP CWWG-06
Panzerbrigade Brigade 10
BATTLEGROUP CWWG-05
Panzer-Brigade 11 'Bayerwald'
BATTLEGROUP CWWG-05
Panzer-Brigade 12

BATTLEGROUP CWWG-04
1. Gebirgsjäger-Division
BATTLEGROUP CWWG-06
Gebirgsjäger-Brigade 22 ‘Oberland’
BATTLEGROUP CWWG-10
Gebirgsjäger-Brigade 23
BATTLEGROUP CWWG-05
Panzer-Brigade 24 ‘Niederbayern’
BATTLEGROUP CWWG-06
Heimatschütz-Brigade 56 (h)

1. Luftlande-Division (-) (b)
BATTLEGROUP CWWG-11
Luftlande-Brigade 25
Fire Support Element CWWG-14
Luftlande-Artillerie-Batterie 9 (d)

BATTLEGROUP CWWG-24
x4 Pioneer Battalion
x1 Amphibious Pioneer Battalion
x2 Floating Bridge Battalion
x1 NBC Defence Battalion (f)
BATTLEGROUP CWWG-26
Sicherungs-Bataillon 200
Manoeuvre Element CWWG-29
Fernspähkompanie 200
Manoeuvre Element CWWG-17
x6 SAM Battery
Manoeuvre Element CWWG-24
x6 Light SAM Battery
Manoeuvre Element CWWG-16
x8 Flak Battery
x6 Bo-105M VBH Observation Helicopter CWWG-37
x6 Alouette II Observation Helicopter (e) CWWG-77
x28 Bo-105P PAH-1 Attack Helicopter (a)CWWG-38
x16 CH-53G Transport Helicopter CWWG-39
x24 UH-1D Utility Helicopter CWWG-40
Manoeuvre Element CWWG-26
x4 Aviation Protection Squadron (Flak) (c)
Manoeuvre Element CWWG-27
x4 Aviation Protection Squadron (c)

(d) The Airlanding Artillery Battery would normally be assigned to ACE Mobile Force (Land), along with a Fallschirmjäger Battalion from III Corps.

(e) These Alouette II helicopters were replaced at some point during the 1980s with:
Bo-105 VBH Observation Helicopters CWWG-37

(f) The role of the NBC Defence Battalion would normally fall outside the scope of ‘Battlefront: Modern’ games, though it’s worth mentioning that three of the battalion’s four companies had x4 FK-20-2 Twin 20mm Flak Guns (CWWG-52) apiece and would therefore carry out rear-area AA defence while simultaneously monitoring NBC-detection equipment.

(g) The Tactical Missile Battalion included large numbers of security personnel and 20mm flak guns.

(h) In wartime, the 56th Brigade would be assigned from the Southern Territorial Command.

(a) Late 1980s: The Bo-105P PAH-1 Attack Helicopters may upgrade to HOT 2 ATGMs (see card).

(b) 1. Fallschirmjäger-Division was merely an administrative formation. The three constituent brigades were distributed to the three regular Army Corps. The only divisional combat support asset was a single Airlanding Artillery Battery (organised the same as a Mountain Battery (FSE CWWG-14)), plus an Airborne Artillery Regiment HQ that would coordinate the activities of any other artillery units assigned to airborne operations.

(c) These units were for the protection of helicopter forward operating bases. Each Aviation Battalion and the Aviation Regiment HQ had a squadron each of Infantry and Flak.
III (Ge) Corps (CENTAG)

- **5. Panzer-Division**
  - **BATTLEGROUP CWWG-06**
  - Panzergrenadier-Brigade 13
  - **BATTLEGROUP CWWG-05**
  - Panzer-Brigade 14 ‘Hessischer Löwe’
  - **BATTLEGROUP CWWG-05**
  - Panzer-Brigade 15 ‘Westerwald’

- **12. Panzer-Division**
  - **BATTLEGROUP CWWG-01**
  - Panzergrenadier-Brigade 34
  - **BATTLEGROUP CWWG-05**
  - Panzer-Brigade 35
  - **BATTLEGROUP CWWG-05**
  - Panzer-Brigade 36

- **2. Panzergrenadier-Division**
  - **BATTLEGROUP CWWG-02**
  - Panzergrenadier-Brigade 5 ‘Kurhessen’
  - **BATTLEGROUP CWWG-05**
  - Panzer-Brigade 4
  - **BATTLEGROUP CWWG-05**
  - Panzer-Brigade 6

- **Luftlande-Brigade 26 ‘Saarland’**
  - **BATTLEGROUP CWWG-11**

(a) Late 1980s: The Bo-105P PAH-1 Attack Helicopters may upgrade to HOT 2 ATGMs (see card).

(b) In wartime, 12. Panzer-Division was to be attached to the US VII Corps.

(c) These units were for the protection of helicopter forward operating bases. Each Aviation Battalion and the Aviation Regiment HQ had a squadron each of Infantry and Flak.

(d) Luftlande-Brigade 26 was tasked with providing a Fallschirmjäger Battalion to ACE Mobile Force (Land). This would be joined by an Airlanding Battery from II Corps and other support elements.

(e) The role of the NBC Defence Battalions would normally fall outside the scope of ‘Battlefront: Modern’ games, though it’s worth mentioning that three of the battalion’s four companies had x4 FK-20-2 Twin 20mm Flak Guns (CWWG-52) apiece and would therefore carry out rear-area AA defence while simultaneously monitoring NBC-detection equipment.

(f) The Tactical Missile Battalion included large numbers of security personnel and 20mm flak guns.

- **BATTLEGROUP CWWG-24**
  - x4 Pioneer Battalion
  - x1 Amphibious Pioneer Battalion
  - x1 Floating Bridge Battalion
  - x2 NBC Defence Battalion (e)
  - x1 Tactical Missile Battalion (Lance) (f)
  - **BATTLEGROUP CWWG-26**
  - Sicherungs-Bataillon 300
  - Manoeuvre Element CWWG-29
  - Fernspähkompanie 300
  - Manoeuvre Element CWWG-17
  - x6 SAM Battery
  - Manoeuvre Element CWWG-24
  - x6 Light SAM Battery
  - Manoeuvre Element CWWG-16
  - x8 Flak Battery
  - x6 Bo-105M VBH Observation Helicopter CWWG-37
  - x6 Alouette II Observation Helicopter CWWG-77
  - x28 Bo-105P PAH-1 Attack Helicopter (a)CWWG-38
  - x16 CH-53G Transport Helicopter CWWG-40
  - x24 UH-1D Utility Helicopter CWWG-39
  - Manoeuvre Element CWWG-26
  - x4 Aviation Protection Squadron (Flak) (c)
  - Manoeuvre Element CWWG-27
  - x4 Aviation Protection Squadron (c)
Schleswig-Holstein Territorial Command (AFNORTH) (a)

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<td>BATTLEGROUP CWWG-09</td>
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<tr>
<td>BATTLEGROUP CWWG-29</td>
<td>VBK 10</td>
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</table>

(a) Somewhat unusually, Schleswig-Holstein Territorial Command reported to Allied Forces North (AFNORTH). This was entirely down to Geography, as the Schleswig-Holstein Territorial Command would be fighting with its back to Denmark and amalgamated into the German-Danish LANDJUT Command. Territorial Commands would probably have been given Corps numbers in wartime.

(b) In wartime these Territorial formations would probably have been re-designated as numbered Territorial Infantry Divisions.

(c) These units were for the protection of helicopter forward operating bases. Each Aviation Battalion had a squadron each of Infantry and Flak, while the Aviation Regiment HQ had the independent platoon shown here.

(d) The Aviation Regiment belonged to 6. Panzergrenadier-Division in peacetime, but in wartime would mostly become a Corps asset and some would also be assigned to LANDJUT (e.g. part of the UH-1D battalion was to be assigned to the British 1st Infantry Brigade). There also appears to have been a reservist helicopter squadron present in Schleswig-Holstein, though details are unclear. May therefore add:

- x10 Alouette II Observation Helicopter CWWG-77

(e) The role of the NBC Defence Battalions would normally fall outside the scope of ‘Battlefront: Modern’ games, though it’s worth mentioning that three of the battalion’s four companies had x4 FK-20-2 Twin 20mm Flak Guns (CWWG-52) apiece and would therefore carry out rear-area AA defence while simultaneously monitoring NBC-detection equipment.

(f) Late 1980s: The Bo-105P PAH-1 Attack Helicopters may upgrade to HOT 2 ATGMs (see card).
Northern Territorial Command (NORTHAG) (ac)

BATTLEGROUP CWWG-03
II. Wehrbereichskommando (b)

- BATTLEGROUP CWWG-07
  - Heimatschütz-Brigade 52
- BATTLEGROUP CWWG-08
  - Heimatschütz-Brigade 62
- BATTLEGROUP CWWG-09
  - Heimatschütz-Regiment 72
  - BATTLEGROUP CWWG-09
  - Heimatschütz-Regiment 82
- BATTLEGROUP CWWG-29
  - VBK 20
  - VBK 22
  - VBK 23
  - VBK 24
  - VBK 25

BATTLEGROUP CWWG-03
III. WBK (b)

- BATTLEGROUP CWWG-07
  - Heimatschütz-Brigade 53
- BATTLEGROUP CWWG-08
  - Heimatschütz-Brigade 63
- BATTLEGROUP CWWG-09
  - Heimatschütz-Regiment 73
  - BATTLEGROUP CWWG-09
  - Heimatschütz-Regiment 83
  - BATTLEGROUP CWWG-09
  - Heimatschütz-Regiment 93
- BATTLEGROUP CWWG-29
  - VBK 31
  - VBK 32
  - VBK 33
  - VBK 34
  - VBK 35

(a) Territorial Commands would probably have been given corps numbers in wartime. Northern Territorial Command reported to the British-led NORTHAG in North-West Germany.

(b) In wartime these would probably have been re-designated as numbered Territorial Infantry Divisions.

(c) While a reservist aviation battalion is listed, details are absent as to what it actually consisted of, so the Alouettes shown here are a guess.
Southern Territorial Command (CENTAG) (ac)

Territorial Commands would probably have been given corps numbers in wartime. Southern Territorial Command reported to the US-led CENTAG in South-West Germany, though might have been split in two if it were decided to form a SOUTHAG during the build-up to war.

In wartime these would probably have been re-designated as numbered Territorial Infantry Divisions.

In wartime, the 56th Brigade would instead be assigned to 1. Gebirgsjäger-Division. It was considerably better-equipped than other Heimatschütz Brigades.
The divisions of II Corps replaced their Alouettes with:

Bo-105M VBH Observation Helicopter CWWG-37

This unit was for the protection of helicopter forward operating bases.

These units are for the close defence of the divisional Artillery Regiment HQ and the individual artillery battalions.

The role of the divisional NBC Defence Company would not normally fall within the scope of 'Battlefront: Modern' games, however, the company’s NBC Warfare monitoring teams filled a dual role, in that they would deploy 20mm AA guns alongside the NBC monitoring equipment and would therefore carry out rear-area AA defence while simultaneously monitoring NBC-detection equipment.

It’s also worth mentioning that the West Germans were second-to-none when it came to NBC Defence and no other NATO ally had such an extensive array of dedicated NBC Defence units. This deficiency was laid bare during the Gulf War of 1990/91, leading the UK and USA to rapidly buy specialist NBC Warfare Fuchs vehicles from Germany for the campaign.
BATTLEGROUP CWWG-02

Panzergrenadier Division 1980s

**BATTLEGROUPS**
- BG CWWG-05
  - x1 Panzer Brigade
- BG CWWG-06
  - x2 Panzergrenadier Brigade
- BG CWWG-18
  - x2 Jäger Battalion (b)
  - Alternative:
    - BG CWWG-17
    - x2 Heavy Jäger Battalion (b)
- BG CWWG-22
  - x1 Panzer Reconnaissance Battalion
- BG CWWG-24
  - x1 Pioneer Battalion
- BG CWWG-26
  - x1 Security Battalion

**MANOEUVRE ELEMENTS**
- ME CWWG-15
  - x6 Panzer Flak Battery
- ME CWWG-24
  - x6 Light SAM Battery
- ME CWWG-28
  - x1 Aviation Protection Platoon (c)
- ME CWWG-30
  - x1 Artillery Regiment Escort Battery (d)
- ME CWWG-31
  - x3 Artillery Battalion Escort Platoon (d)
- ME CWWG-32
  - x1 Divisional NBC Defence Company (e)

**FIRE SUPPORT ELEMENTS**
- FSE CWWG-03
  - x1 Field Artillery Battalion
- FSE CWWG-05
  - x1 SP Heavy Artillery Battalion
- FSE CWWG-07
  - x1 Rocket Artillery Battalion

**ORGANIC AVIATION ASSETS**
- x10 Alouette II Observation Helicopter CWWG-77 (af)

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(a) Late 1980s: The divisions of II Corps replaced their Alouettes with:
  - Bo-105M VBH Observation Helicopter CWWG-37

(b) Most Divisions had motorised Jäger Battalions (BG CWWG-18), though 6th Panzergrenadier Division had x2 Heavy Jäger Battalions (BG CWWG-17).

(c) This unit was for the close protection of helicopter forward operating bases.

(d) These units are for the close protection of the division's Artillery Regiment HQ and the individual artillery battalions.

(e) The role of the divisional NBC Defence Company would not normally fall within the scope of 'Battlefront: Modern' games, however, the company's NBC Warfare monitoring teams filled a dual role, in that they would deploy 20mm AA guns alongside the NBC monitoring equipment and would therefore carry out rear-area AA defence while simultaneously monitoring NBC-detection equipment. It's also worth mentioning that the West Germans were second-to-none when it came to NBC Defence and no other NATO ally had such an extensive array of dedicated NBC Defence units. This deficiency was laid bare during the Gulf War of 1990/91, leading the UK and USA to rapidly buy specialist NBC Warfare Fuchs vehicles from Germany for the campaign.

(f) 6. Panzergrenadier-Division in Schleswig-Holstein did not have an aviation squadron as shown here. Instead, it had all the aviation assets shown under the Schleswig-Holstein Territorial Command orbat, though some of these would be assigned to Territorial and LANDJUT units.
**BATTLEGROUP CWWG-03**

**Territorial Infantry Division 1980s (Wehrbereichskommando)**

**BATTLEGROUPS**

- BG CWWG-07
  - x1 50-Series Heimatschütz Brigade (c)
- BG CWWG-08
  - x1 60-Series Heimatschütz Brigade
- BG CWWG-09
  - x2 or x3 Heimatschütz Regiment (a)
- BG CWWG-29
  - x1 to x7 District Defence Command (‘VBK’) (d)
- BG CWWG-24
  - x2 to x4 Pioneer Battalion
- BG CWWG-26
  - Up to x1 Security Battalion (e)

**MANOEUVRE ELEMENTS**

- ME CWWG-16
  - Up to x9 Flak Company (b)
- ME CWWG-30
  - x1 Artillery Regiment Escort Battery (bf)
- ME CWWG-31
  - x2 to x3 Artillery Battalion Escort Platoon (bf)

**FIRE SUPPORT ELEMENTS**

- FSE CWWG-03
  - Up to x1 Field Artillery Battalion (b)
- FSE CWWG-05
  - Up to x1 SP Heavy Artillery Battalion (b)
- FSE CWWG-07
  - Up to x1 Rocket Artillery Battalion (b)

(a) IV. & VI. Wehrbereichskommando (WBK) each had three such regiments. The others each had two. The Heimatschütz were responsible for mobile defence within their area of responsibility.

(b) Only the Schleswig-Holstein ‘Territorial-Kommando’ had these divisional assets permanently attached. The other formations would presumably be allocated such units from regular Corps assets in wartime.

(c) The 50-series brigade belonging to VI. WBK (56th Brigade) was uniquely equipped with regular equipment, such as Leopards and Marders. However, it was assigned to reinforce the 1st Gebirgsjäger Division in wartime (see BG CWWG-04).

(d) Each District Defence Command (Verteidigungsbezirkskommando or ‘VBK’) was responsible for maintaining civil defence within their area of responsibility, as well as static defence of specific locations and lines of communication and liaising between NATO formations and the local civil authority.

(e) Each Territorial Command actually had a collection of independent Security Companies and Platoons rather than a single, unified Security Battalion.

(f) These units are for the close defence of the divisional Artillery Regiment HQ and individual artillery battalions.
The 56th Territorial Brigade was unique among Territorial units, in that it was assigned to a regular formation and had the equipment (Leopards and Marders) to match. However, it was assigned administratively to the VI. WBK, filling the 50-Series Brigade slot. It would therefore have left a large gap in that formation when assigned to the 1st Gebirgsjäger Division; essentially leaving the VI. WBK without an armoured reserve.

This unit was for the protection of helicopter forward operating bases.

These units were for the close defence of the divisional Artillery Regiment HQ and the individual artillery battalions.

The role of the divisional NBC Defence Company would not normally fall within the scope of 'Battlefront: Modern' games, however, the company's NBC Warfare monitoring teams filled a dual role, in that they would deploy 20mm AA guns alongside the NBC monitoring equipment and would therefore carry out rear-area AA defence while simultaneously monitoring NBC-detection equipment. It's also worth mentioning that the West Germans were second-to-none when it came to NBC Defence and no other NATO ally had such an extensive array of dedicated NBC Defence units. This deficiency was laid bare during the Gulf War of 1990/91, leading the UK and USA to rapidly buy specialist NBC Warfare Fuchs vehicles from Germany for the campaign.

Late 1980s: Replace the Alouettes with: Bo-105M VBH Observation Helicopter
BATTLEGROUP CWWG-05
Panzer Brigade 1980s
(2 per Panzer Division or 1 per Panzer-Grenadier Division)
- Command
  x1 Commander CWWG-26
- Transport
  x1 M577 Command Vehicle CWWG-20

BATTLEGROUPS
BG CWWG-14
x1 Mixed Panzer Battalion

BG CWWG-15
x1 Panzergrenadier Battalion

BG CWWG-13
x2 Panzer Battalion

MANOEUVRE ELEMENTS
- ME CWWG-11
  x1 Brigade Panzer Recce Platoon
- ME CWWG-04
  x1 Jagdpanzer Company
- ME CWWG-13
  x1 Brigade Panzer Pioneer Company
- ME CWWG-31
  Artillery Battalion Escort Platoon

FIRE SUPPORT ELEMENTS
- FSE CWWG-01
  x1 Panzer Artillery Battalion

BATTLEGROUP CWWG-06
Panzergrenadier Brigade 1980s
(2 per Panzer-Grenadier Division or 1 per Panzer Division)
- Command
  x1 Commander CWWG-26
- Transport
  x1 M577 Command Vehicle CWWG-20

BATTLEGROUPS
BG CWWG-16
x1 Mixed Panzergrenadier Battalion

BG CWWG-15
x2 Panzergrenadier Battalion

BG CWWG-13
x1 Panzer Battalion

MANOEUVRE ELEMENTS
- ME CWWG-11
  x1 Brigade Panzer Recce Platoon
- ME CWWG-04
  x1 Jagdpanzer Company
- ME CWWG-13
  x1 Brigade Panzer Pioneer Company
- ME CWWG-31
  Artillery Battalion Escort Platoon

FIRE SUPPORT ELEMENTS
- FSE CWWG-01
  x1 Panzer Artillery Battalion
**BATTLEGROUP CWWG-07**

50-Series Heimatschütz Brigade 1980s

(1 per Territorial Division)

- **Command**
  - x1 Commander CWWG-26

- **Transport**
  - x1 Schützenpanzer Kurz 22-2 (e) CWWG-54

**BATTLEGROUPS**

- BG CWWG-28
  - x1 Jäger Battalion (a)

- BG CWWG-27
  - x1 Heavy Jäger Battalion (a)

- BG CWWG-13
  - x2 Panzer Battalion (d)

**MANOEUVRE ELEMENTS**

- ME CWWG-13
  - Up to x1 Brigade Panzer Pioneer Company (f)

- ME CWWG-31
  - Artillery Battalion Escort Platoon

**FIRE SUPPORT ELEMENTS**

- FSE CWWG-018
  - x1 Light Field Artillery Battalion (b)

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**BATTLEGROUP CWWG-08**

60-Series Heimatschütz Brigade 1980s

(1 per Territorial Division)

- **Command**
  - x1 Commander CWWG-26

- **Transport**
  - x1 Munga Light Utility Vehicle (a) CWWG-63

**BATTLEGROUPS**

- BG CWWG-28
  - x2 Jäger Battalion

- BG CWWG-13
  - x1 Panzer Battalion (b)

**MANOEUVRE ELEMENTS**

- ME CWWG-13
  - Up to x1 Brigade Panzer Pioneer Company (c)

- ME CWWG-31
  - Artillery Battalion Escort Platoon

**FIRE SUPPORT ELEMENTS**

- FSE CWWG-08
  - x1 Light Field Artillery Battalion

(a) In 56th Heimatschütz Brigade (VI. WBK/1st Gebirgsjäger Division), replace Jäger Battalion and Heavy Jäger Battalion with:
  - x2 Panzergrenadier Battalion (BG CWWG-15)

(b) In 56th Heimatschütz Brigade, replace Light Field Artillery Battalion with:
  - x1 Panzer Artillery Battalion (FSE CWWG-01)

(c) In 56th Heimatschütz Brigade, add:
  - x1 Jagdpanzer Company (ME CWWG-02)
  - x1 Panzer Pioneer Company (ME CWWG-13)

(d) Territorial Panzer Battalions were generally equipped with M48A2GA2 Patton tanks. However, some M48A2C Pattons remained in service until 1983 and the 56th Brigade was even lucky enough to be equipped with Leopard 1. Some sources suggest that as Leopard 2 came into service with regular units, Leopard 1s were 'cascaded' down to the 50-Series Heimatschütz Brigades, so it's possible that other brigades might have had Leopard.

(e) Early 1980s: Replace SPz Kz 22-2 with:
  - M577 Command Vehicle CWWG-20

(f) Except for the 56th Brigade, there was no organic Pioneer Company for most of the 1980s. However, it was hoped that a Panzer Pioneer Company (ME CWWG-13) would be present in each 60-series Brigade by 1989. It is not clear if this plan was achieved.
BATTLEGROUP CWWG-09

Heimatschütz Regiment 1980s
(2 or 3 per Territorial Division)

Command
- x1 Commander
  CWWG-26

Transport
- x1 Munga Light Utility Vehicle (a)
  CWWG-63

BATTLEGROUPS

BG CWWG-25

- x3 Heimatschütz Jäger Battalion

MANOEUVRE ELEMENTS

ME-CWWG-03
- x1 Jagdpanzer Platoon

FIRE SUPPORT ELEMENTS

FSE CWWG-12
- x1 Mortar Company

(a) Mid-1980s: Replace Munga with:
Ilitis Light Utility Vehicle

BATTLEGROUP CWWG-10

Gebirgsjäger Brigade 1980s
(1 per Gebirgsjäger Division)

Command
- x1 Commander
  CWWG-26

Transport
- x1 Munga Light Utility Vehicle
  CWWG-63

BATTLEGROUPS

BG CWWG-19

- x4 Gebirgsjäger Battalion

MANOEUVRE ELEMENTS

ME-CWWG-02
- x1 Jagdpanzer Company

ME CWWG-14
- x1 Pioneer Company

ME CWWG-31
- Artillery Battalion Escort Platoon

FIRE SUPPORT ELEMENTS

FSE CWWG-13
- x1 Mountain Artillery Battalion

(a) Mid-1980s: Replace Munga with:
Ilitis Light Utility Vehicle

BATTLEGROUP CWWG-11

Luftlande Brigade 1980s
(1 per Corps)

Command
- x1 Commander
  CWWG-26

Transport
- x1 KraKa Airborne Weapons Carrier (a)
  CWWG-46

BATTLEGROUPS

BG CWWG-20

- x3 Fallschirmjäger Battalion

BG CWWG-21

- x1 Reserve Fallschirmjäger Battalion

MANOEUVRE ELEMENTS

ME CWWG-14
- x1 Pioneer Company

FIRE SUPPORT ELEMENTS

FSE CWWG-10
- x1 Airlanding Mortar Company

FSE CWWG-14
- Up to x1 Airlanding Artillery Battery (b)

(a) May replace KraKa carrier with:
Munga Light Utility Vehicle
Ilitis Light Utility Vehicle (no MG)

(b) There was only one permanently-established battery (which
was assigned to AMF(L), though other batteries might have been
formed from reservists.)
BATTLEGROUP CWWG-13
Panzer Battalion

Command
x1 Leopard 1A1/1A2 105mm MBT (abcd) CWWG-02

MANOEUVRE ELEMENTS

ME CWWG-01
x3 Panzer Company

(a) May replace Leopard 1A1/1A2 with:
   Leopard 1A3/1A4 105mm Main Battle Tank CWWG-03
   Leopard 1A1A1/1A2A1 105mm Main Battle Tank CWWG-64
Or from 1988 with:
   Leopard 1A5 105mm Main Battle Tank CWWG-04
Or from 1982, in Panzer Brigades (particularly in Panzer Divisions), with:
   Leopard 2 120mm Main Battle Tank CWWG-05
Or from 1986 with:
   Leopard 2A4 120mm Main Battle Tank CWWG-75

(b) In Territorial Brigades (except 56th Brigade), replace Leopard 1 with:
   M48A2GA2 Patton 105mm Medium Tank CWWG-01
Or in a very few units in the early 1980s with:
   M48A2C Patton 90mm Medium Tank CWWG-65

(c) All tanks in the battalion must be of the same type.

(d) For an exact breakdown of tank type by unit and year, refer to Max Wünderlich’s superb reference chart at http://www.fireandfury.com/orbats/BundeswehrTankEquipmentByYear.pdf

BATTLEGROUP CWWG-14
Mixed Panzer Battalion

Command
x1 Leopard 1A1/1A2 105mm MBT (ace) CWWG-02

MANOEUVRE ELEMENTS

ME CWWG-01
x2 Panzer Company

ME CWWG-04
x1 Panzergrenadier Company

ATTACHMENTS

Organic Fire Support
x1 81mm Mortar CWWG-34

Transport
x1 M125 81mm Mortar Carrier (bd) CWWG-18

(a) May replace Leopard 1A1/1A2 with:
   Leopard 1A3/1A4 105mm Main Battle Tank CWWG-03
   Leopard 1A1A1/1A2A1 105mm Main Battle Tank CWWG-64
Or from 1988 with:
   Leopard 1A5 105mm Main Battle Tank CWWG-04
Or from 1982 (particularly in Panzer Divisions) with:
   Leopard 2 120mm Main Battle Tank CWWG-05
Or from 1986 with:
   Leopard 2A4 120mm Main Battle Tank CWWG-75

(b) Early 1980s: Some units persisted with obsolete vehicles. May therefore replace M125 with:
   Schützenpanzer Kurz 51-2 81mm Mortar Carrier CWWG-55

(c) All tanks in the battalion must be of the same type.

(d) Note that West German M113 variants were fitted with the MG3 instead of the M2 .50 Cal.

(e) For an exact breakdown of tank type by unit and year, refer to Max Wünderlich’s superb reference chart at http://www.fireandfury.com/orbats/BundeswehrTankEquipmentByYear.pdf
**BATTLEGROUP CWWG-18**  
**Divisional Jäger Battalion**

- **Command**  
  x1 Commander  
  CWWG-26

- **Transport**  
  x1 Munga Light Utility Vehicle (a)  
  CWWG-63

- **Recce**  
  x1 Jäger Light Infantry (1 Pzf44)  
  CWWG-59

- **Transport/Recce**  
  x1 Munga Light Utility Vehicle (a)  
  CWWG-63

**MANOUEVRE ELEMENTS**

- ME CWWG-07
  x3 Jäger Company

**FIRE SUPPORT ELEMENTS**

- **FSE CWWG-12**
  x1 Mortar Company

**ATTACHMENTS**

- x3 FK20-2 Twin 20mm Antiaircraft Gun  
  CWWG-52

- Transport  
  x3 Unimog Medium Truck  
  CWWG-23

- x4 Milan ATGM Team (bc)  
  CWWG-30

- Transport  
  x2 Unimog Medium Truck (b)  
  CWWG-23

(a) Mid-1980s: Replace Munga light utility vehicle with:  
  Ittis Light Utility Vehicle  
  CWWG-22

(b) In 1st Mountain Division: Increase to x9 Milan ATGM Teams and x4 Unimog Trucks.

(c) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).

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**BATTLEGROUP CWWG-19**  
**Gebirgsjäger Battalion**

- **Command**  
  x1 Commander  
  CWWG-26

- **Transport**  
  x1 Munga Light Utility Vehicle (ab)  
  CWWG-63

**MANOUEVRE ELEMENTS**

- ME CWWG-08
  x3 Gebirgsjäger Company

**FIRE SUPPORT ELEMENTS**

- **FSE CWWG-12**
  x1 Mortar Company

**ATTACHMENTS**

- x3 FK20-2 Twin 20mm Antiaircraft Gun  
  CWWG-52

- Transport  
  x3 Unimog Medium Truck (ab)  
  CWWG-23

- Recce  
  x3 Gebirgsjäger Light Inf (1 Pzf & 1 CG) (c)  
  CWWG-61

- Transport/Recce  
  x3 Munga Light Utility Vehicle (ab)  
  CWWG-63

(a) In high mountain warfare operations, delete transport (pack mules were used to haul supplies, heavy weapons and equipment).

(b) Mid-1980s: Replace Munga light utility vehicle with:  
  Ittis Light Utility Vehicle  
  CWWG-22

(c) Mid-1980s: Replace Carl-Gustav in Recce Platoon with Milan.
**BATTLEGROUP CWWG-15**

**Panzergrenadier Battalion**

- **Command**
  - x1 Commander CWWG-26
- **Transport**
  - x1 Marder 1/1A1 20mm MICV (ab) CWWG-16

**MANOEUVRE ELEMENTS**

- ME CWWG-04
  - x3 Panzergrenadier Company (c)
- **Alternative:**
  - ME CWWG-04
  - x2 Panzergrenadier Company (c)
- ME CWWG-05
  - x1 Panzergrenadier Company (MTW) (c)

**FIRE SUPPORT ELEMENTS**

- FSE CWWG-15
  - x1 Panzer Mortar Company

(a) The Marder 1A2 was introduced during the mid-1980s. It makes no difference in game terms, but may matter to you in terms of which models to buy.

(b) 1989: May replace Marder 1A1/1A2 in some units with:

Marder 1A3 20mm MICV CWWG-31

(c) Panzergrenadier Battalions of Panzer Brigades had x3 Marder-equipped Panzergrenadier Companies (ME CWWG-04). Those of the 1st Mountain Division (Panzergrenadier Brigade 22) also had x3 Marder Companies. However, those of all other Panzergrenadier Brigades had x2 Marder-equipped companies and x1 ‘MTW’ company, equipped with M113G (ME CWWG-05).

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**BATTLEGROUP CWWG-16**

**Mixed Panzergrenadier Battalion**

- **Command**
  - x1 Commander CWWG-26
- **Transport**
  - x1 Marder 1/1A1/1A2 20mm MICV (ab) CWWG-16

**MANOEUVRE ELEMENTS**

- ME CWWG-04
  - x2 Panzergrenadier Company
- ME CWWG-01
  - x1 Panzer Company

(a) The Marder 1A2 was introduced during the mid-1980s. It makes no difference in game terms, but may matter to you in terms of which models to buy.

(b) 1989: May replace Marder 1A1/1A2 in some units with:

Marder 1A3 20mm MICV CWWG-31

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**BATTLEGROUP CWWG-17**

**Divisional Heavy Jäger Battalion**

- **Command**
  - x1 Commander CWWG-26
- **Transport**
  - x1 M113 G Armoured Personnel Carrier CWWG-23
- **Recce**
  - x1 Jäger Light Infantry (1 Pzf44) CWWG-59
- **Transport/Recce**
  - x1 Munga Light Utility Vehicle (a) CWWG-63

**MANOEUVRE ELEMENTS**

- ME CWWG-06
  - x3 Heavy Jäger Company

**FIRE SUPPORT ELEMENTS**

- FSE CWWG-15
  - x1 Panzer Mortar Company

**ATTACHMENTS**

- x3 FK20-2 Twin 20mm Anti-aircraft Gun CWWG-52
- x3 Unimog Medium Truck CWWG-23
- x4 Milan ATGM Team (b) CWWG-30
- **Transport**
  - x2 M113 G Armoured Personnel Carrier CWWG-23

(a) Mid-1980s: Replace Munga light utility vehicle with:

Iltis Light Utility Vehicle CWWG-22

(b) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).
BATTLEGROUP CWWG-20

**Fallschirmjäger Battalion (c)**

- **Command**
  - x1 Commander CWWG-26
- **Transport**
  - x1 KraKa Airborne Weapons Carrier (a) CWWG-46

**MANOEUVRE ELEMENTS**

- ME CWWG-09
  - x2 Fallschirmjäger Company

- ME-CWWG-10
  - x2 Fallschirmjäger Antitank Company

**ATTACHMENTS**

- Recce
  - x3 Fallschirmjäger (1 Pzf44) (b) CWWG-29

(a) May replace KraKa carrier in the Early 1980s with:
- Munga Light Utility Vehicle CWWG-63
- Or in the Mid-1980s with:
  - Iltis Light Utility Vehicle (no MG) CWWG-22

(b) In the late 1980s: The Armbrust (‘Crossbow’) 67mm LAW was issued to a number of West German units for field trials. However, despite extensive trials, the weapon was never accepted for general issue. Nevertheless, in the spirit of ‘what if’, those units that did receive Armbrust may equip up to x1 Infantry unit with Armbrust (see unit card).

(a) A single Fallschirmjäger Battalion (taken on rotation from one of the Luftlande Brigades) would form part of the ‘Southern Option’ for ACE Mobile Force (Land), which was a brigade-sized formation normally containing a US Parachute Battalion, a Belgian Paracommando Battalion, a Spanish Parachute Battalion and British Headquarters, Medium Recce and Light Artillery elements.

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BATTLEGROUP CWWG-21

**Reserve Fallschirmjäger Battalion**

- **Command**
  - x1 Commander CWWG-26
- **Transport**
  - x1 KraKa Airborne Weapons Carrier (a) CWWG-46

**MANOEUVRE ELEMENTS**

- ME CWWG-09
  - x3 Fallschirmjäger Company

**ATTACHMENTS**

- Recce
  - x3 Fallschirmjäger (1 Pzf44) (b) CWWG-29

(a) May replace KraKa carrier in the Early 1980s with:
- Munga Light Utility Vehicle CWWG-63
- Or in the Mid-1980s with:
  - Iltis Light Utility Vehicle (no MG) CWWG-22

(b) In the late 1980s: The Armbrust (‘Crossbow’) 67mm LAW was issued to a number of West German units for field trials. However, despite extensive trials, the weapon was never accepted for general issue. Nevertheless, in the spirit of ‘what if’, those units that did receive Armbrust may equip up to x1 Infantry unit with Armbrust (see unit card).
BATTLEGROUP CWWG-22
Panzer Recce Battalion (Heeresstruktur 3) (a)
- Command/Recce
  - x1 Commander CWWG-26
- Transport/Recce
  - x1 Schützenpanzer Kurz 22-2 (a) CWWG-54

MANOUEVRE ELEMENTS
- ME CWWG-12
  - x2 Panzer Recce Company (Heeresstruktur 3)
- ME CWWG-20
  - x1 Heavy Panzer Recce Company (Heeresstruktur 3)

ATTACHMENTS
- Recce
  - x4 Ground Surveillance Radar Set
- Transport/Recce
  - x2 Radaranpanzer Kurz 91-2 CWWG-49
  - x2 Munga Light Utility Vehicle CWWG-63

ALTERNATIVE:
BATTLEGROUP CWWG-22a
Panzer Recce Battalion (Heeresstruktur 4) (a)
(1980-1990)
- Command/Recce
  - x1 Commander CWWG-26
- Transport/Recce
  - x1 Transportpanzer 1 Fuchs (b) CWWG-21

MANOUEVRE ELEMENTS
- ME CWWG-21
  - x2 Heavy Panzer Recce Company (Heeresstruktur 4)
- ME CWWG-22
  - x1 Mixed Panzer Recce Company (Heeresstruktur 4)
- ME CWWG-23
  - x1 Panzer Recce Jäger Company (Heeresstruktur 4)

ATTACHMENTS
- Recce
  - x4 Ground Surveillance Radar Set
- Transport/Recce
  - x4 Transportpanzer 1 Fuchs PARA (c) CWWG-70

(a) When the Heeresstruktur 4 reorganisation was introduced in 1980, the Panzer-Reconnaissance Battalions were among the most radically reorganised major combat units in the Bundeswehr Heer. As consequence, some battalions continued under the Heeresstruktur 3 organisation for some time while they waited for new equipment (particularly the brand-new Transportpanzer 1 Fuchs) to enable them to make the necessary changes. Other units meanwhile, made the organisational changes, but soldiered on with obsolete equipment.

(b) Even after reorganisation, some units continued with Schützenpanzer Kurz 22-2 (CWWG-54) until 1982.

(c) Some units were still using Radaranpanzer Kurz 91-2 (CWWG-49) and Munga jeeps (CWWG-63) to carry radar sets until 1984.

BATTLEGROUP CWWG-23
Panzer Pioneer Battalion
- Command
  - x1 Commander CWWG-26
- Transport
  - x1 Transportpanzer 1 Fuchs APC CWWG-21

MANOUEVRE ELEMENTS
- ME CWWG-13
  - x3 Panzer Pioneer Company

BATTLEGROUP CWWG-24
Pioneer Battalion
- Command
  - x1 Commander CWWG-26
- Transport
  - x1 Munga Light Utility Vehicle (a) CWWG-63

MANOUEVRE ELEMENTS
- ME CWWG-14
  - x3 Pioneer Company

(a) Mid-1980s: Replace Munga light utility vehicle with:
Iltis Light Utility Vehicle CWWG-22
BATTLEGROUP CWWG-26
Security Battalion

Command
x1 Commander CWWG-26
Transport
x1 Munga Light Utility Vehicle (a) CWWG-63

MANOEUVRE ELEMENTS
ME CWWG-19
x3 Heimatschütz Jäger Company

ATTACHMENTS
x3 FK20-2 Twin 20mm Antiaircraft Gun CWWG-52
Transport
x1 Unimog Medium Truck CWWG-23
Recce
x3 Jäger (1 Pzf44) CWWG-59
Transport/Recce
x3 Munga Light Utility Vehicle (with MG) (a) CWWG-63

(a) Mid-1980s: Replace Munga with:
Iltis Light Utility Vehicle CWWG-22

BATTLEGROUP CWWG-27
Territorial Heavy Jäger Battalion

Command
x1 Commander CWWG-26
Transport
x1 M577 Command Vehicle (a) CWWG-20

MANOEUVRE ELEMENTS
ME CWWG-06
x3 Heavy Jäger Company
ME-CWWG-03
x1 Jagdpanzer Platoon

FIRE SUPPORT ELEMENTS
FSE CWWG-15
x1 Panzer Mortar Company

(a) Early 1980s: Some units (particularly in reservist formations)
persisted with obsolete vehicles. May therefore replace M577 with:
Schützenpanzer Kurz 22-2 Command Vehicle CWWG-54

BATTLEGROUP CWWG-28
Territorial Jäger Battalion

Command
x1 Commander CWWG-26
Transport
x1 Munga Light Utility Vehicle (a) CWWG-63

MANOEUVRE ELEMENTS
ME CWWG-07
x3 Jäger Company
ME-CWWG-03
x1 Jagdpanzer Platoon

FIRE SUPPORT ELEMENTS
FSE CWWG-12
x1 Mortar Company

(a) Mid-1980s: Replace Munga light utility vehicle with:
Iltis Light Utility Vehicle CWWG-22
The County Defence Commands (Verteidigungskreiskommandos or 'VKK') were roughly battalion-sized units, responsible for static defence within a specific county area, as well as civil defence and liaison with co-located NATO units.

The VBKs varied wildly in strength, though on average they were battalion-sized units of roughly 500 men.

The VKKs varied quite wildly in strength. They typically had a core of Heimatschütz Security Companies to provide local defence and support to the civil authorities, and in most cases had a contingent of pioneers.

These Pioneer Companies were actually called 'Wallmeister-Kompanien', or 'Wall Master Companies' as a historical reference to the days of walled towns and fortifications. As the name suggests, these were responsible for building and maintaining fortifications and obstacles within a given area (e.g. fighting positions, minefields, cratering roads, demolishing bridges, etc). These fortifications and obstacles would then be defended by themselves or other NATO units.

In Territorial Brigades (except 56th Brigade), replace Leopard 1 with:
- M48A2GA2 Patton 105mm Medium Tank
- M48A2C Patton 90mm Medium Tank

In 1982: Delete all remaining Raketenjagdpanzer 2 (these were converted to Jaguar 1 from 1978 onwards). The remaining Jagdpanzer companies that had not converted to Jaguar 1 or Jaguar 2 therefore soldiered on as gun-only Kanonenjagdpanzer Companies. These were primarily found in reservist brigades.

Late 1980s: The last remaining Kanonenjagdpanzer 4-5 were still hanging on with Territorial units and in 1. Gebirgsjäger-Division. However, these were rapidly wearing out and some were replaced with obsolete tanks. May therefore replace Kanonenjagdpanzer 4-5 with:
- M48A2GA2 Patton 105mm Medium Tank
- Leopard 1A4 105mm Main Battle Tank

Late 1980s: May upgrade Jaguar 1 with HOT 2 ATGMs (see card).

Late 1980s: May upgrade Jaguar 2 with TOW 2 ATGMs (see card).
MANOEUVRE ELEMENT CWWG-03
Jagdpanzer Platoon

Command

- x1 Kanonenjagdpanzer 4-5 (a) CWWG-07
- x2 Kanonenjagdpanzer 4-5 (a) CWWG-07

(a) Late 1980s: May replace Kanonenjagdpanzer in some units with:

M48A2GA2 Patton 105mm Medium Tank CWWG-01

MANOEUVRE ELEMENT CWWG-04
Panzergrenadier Company

Command

- x1 Commander CWWG-26
- x9 Panzergrenadiere (3 Pzf44) (abc) CWWG-27
- Recce
  - x1 Panzergrenadiere (no Pzf44) (g) CWWG-27
- Transport
  - x4 Marder 1/1A1/1A2 20mm MICV (def) CWWG-16

(a) Early 1980s: The Company is equipped with x1 Milan ATGM. This weapon may be installed as a vehicle weapon on a Marder (see card) or alternatively may be dismounted as an ATGM team, whereupon it replaces one of the Panzergrenadier sections. The reason for this is that the Marder section size was very small; only seven men (later reduced to six), compared to 11 men in an M113G or Jäger section. This meant that once burdened with a Milan plus ammo, the section essentially became a Milan Team. May therefore replace a Panzergrenadier Section with:

Milan ATGM Team (bd) CWWG-30

(b) Late 1980s: The Milan strength of Panzergrenadier companies was increased to x3 Milan. As before, these can either be installed on Marders or dismounted as Milan ATGM Teams (CWWG-30), whereupon they will replace Panzergrenadier Sections. (d)

(c) In the late 1980s: The Armbrust (‘Crossbow’) 67mm LAW was issued to a number of West German units for field trials. However, despite extensive trials, the weapon was never accepted for general issue. Nevertheless, in the spirit of ‘what if’, those units that did receive Armbrust may equip up to x3 Infantry units with Armbrust (see unit card).

(d) Milan ATGMs may be fired as a vehicle weapon from Marder MICVs while Milan-equipped troops are mounted. Milan ATGMs may alternatively be installed on the vehicle. Milan-equipped vehicles should be indicated using a marker or similar.

(e) The Marder 1A2 was introduced during the mid-1980s. It makes no difference in game terms, but may matter to you in terms of which models to buy.

(f) 1989: May replace Marder 1A1/1A2 in some units with:

Marder 1A3 20mm MICV CWWG-31

(g) The Panzergrenadier Company HQ had a Reserve Section. The primary role of this unit was to boost the overall rifle strength of Company, which was low due to the small squad-size within a Marder-equipped company. The Reserve Section’s secondary role was that of reconnaissance.

MANOEUVRE ELEMENT CWWG-05
Panzergrenadier Company (MTW)

Command/Recce

- x1 Commander CWWG-26
- Recce
  - x9 Pzgrenadiere (MTW) (3 PzF, 1 Milan) (ab) CWWG-60
- Transport/Recce
  - x4 M113G Armoured Personnel Carrier (bc) CWWG-17

(a) Unlike Marder-equipped Panzergrenadier units, the Panzergrenadier units equipped with the M113G ‘Manschatstransportwagen’ (i.e. ‘MTW’) and had sufficiently large 11-man sections to comfortably absorb Milan ATGMs within the section without compromising overall ‘rifle’ strength. The Milan is therefore integral to the Panzergrenadier (MTW) Section and there is no need to replace sections with Milan ATGM Teams when they dismount. In the late 1980s: increase Milan ATGM strength to x3 Milan per Company. (d)

(b) Milan ATGMs may be fired as a vehicle weapon from their M113G when Milan-equipped troops are mounted (max 1 per vehicle). They may alternatively be installed on the vehicle, to be operated by the vehicle crew once the troops dismount. Milan-equipped M113Gs should be indicated using markers, model Milans or similar.

(c) Note that the M113G had a 7.62mm MG3 instead of the M2 .50 Cal found on most nations’ M113s.

(d) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).
**MANOEUVRE ELEMENT CWWG-06**

**Heavy Jäger Company**

Command:
- x1 Commander: CWWG-26

HQ:
- x9 Jäger (1 Carl Gustav & 3 PzF44) (a): CWWG-59
- Up to x1 Milan ATGM Team (bce): CWWG-30

Transport:
- x4 M113G Armoured Personnel Carrier (cd): CWWG-17

(a) One Squad is armed with Carl Gustav 84mm MAWs, while three have Panzerfaust 44 LAWs and the remainder have nothing.

(b) Milan ATGM Team only found in Territorial Jäger Battalions and not in Divisional Jäger Battalions.

(c) Milan ATGM may be fired from M113G as a vehicle weapon when Milan Team is mounted.

(d) Note that the M113G had an MG3 instead of the M2 .50 Cal normally found on most nations’ M113s.

(e) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).

**MANOEUVRE ELEMENT CWWG-08**

**Gebirgsjäger Company**

Command:
- x1 Commander: CWWG-26

HQ:
- x1 Munga Light Utility Vehicle (a): CWWG-63
- x9 Gebirgsjäger (3 PzF44 & 3 CG) (b): CWWG-61
- x1 Milan ATGM Team (bc): CWWG-30

Transport:
- x4 Unimog Medium Truck: CWWG-23

(a) Mid-1980s: Replace Munga with: Iltis Light Utility Vehicle: CWWG-22

(b) Late-1980s: Reduce Carl-Gustavs to x1 and add additional ATGM teams:
- x2 Milan ATGM Team (c): CWWG-30

(c) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).

**MANOEUVRE ELEMENT CWWG-07**

**Jäger Company**

Command:
- x1 Commander: CWWG-26

HQ:
- x1 Munga Light Utility Vehicle (a): CWWG-63
- x9 Jäger (1 Carl-Gustav & 3 PzF44) (b): CWWG-27

Up to x1 Milan ATGM Team (cd):

Transport:
- x3 or x4 Unimog Medium Truck: CWWG-23

(a) Mid-1980s: Replace Munga with: Iltis Light Utility Vehicle: CWWG-22

(b) One Squad is armed with Carl Gustav 84mm MAWs, while three have Panzerfaust 44 LAWs and the remainder have nothing.

(c) Milan ATGM Team only found in Territorial Jäger Battalions and not in Divisional Jäger Battalions.

(d) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).

**MANOEUVRE ELEMENT CWWG-09**

**Fallschirmjäger Company**

Command:
- x1 Commander: CWWG-26

HQ:
- x9 Fallschirmjäger (3 PzF44) (a): CWWG-29
- x2 Milan ATGM Team (bd): CWWG-30

Transport:
- x2 KraKa Airborne Weapons Carrier (b): CWWG-46

(a) In the late 1980s: The Armbrust (‘Crossbow’) 67mm LAW was issued to a number of West German units for field trials. However, despite extensive trials, the weapon was never accepted for general issue. Nevertheless, in the spirit of ‘what if’, those units that did receive Armbrust may equip up to x3 Infantry units with Armbrust (see unit card).

(b) Milan ATGMs may be fired from vehicle when mounted.

(c) In a non-airborne mission, the company may be motorised with:
- x4 Unimog Medium Truck: CWWG-23

(d) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).
MANOEUVRE ELEMENT CWWG-10
Fallschirmjäger Antitank Company

- Command
  - x1 Commander CWWG-26
- Transport
  - x1 KraKa Airborne Weapons Carrier (a) CWWG-46
  - x4 KraKa TOW Airborne ATGM Vehicle (bd) CWWG-47
  - x3 KraKa MK Airborne 20mm AA Vehicle (c) CWWG-14

(a) From 1989: May replace KraKa in some units with:
  - Wiesel 1A0 MK 20mm Weapons Carrier (b) CWWG-51
(b) From 1989: May replace KraKa TOW in some units with:
  - Wiesel 1A0 TOW ATGM Weapons Carrier CWWG-50
(c) From 1989: May replace Kraka MK in some units with:
  - Wiesel 1A0 MK 20mm Weapons Carrier CWWG-51
(d) Late 1980s: May upgrade TOW ATGMs to TOW 2 (see card).

MANOEUVRE ELEMENT CWWG-11
Brigade Panzer Reconnaissance Platoon (b)

- Command/Recce
  - x1 Panzerspähwagen Luchs (a) CWWG-12
  - Recce
    - x3 Panzerspähwagen Luchs (a) CWWG-12

(a) 1980-82: Some units persisted in using obsolete vehicles. May therefore replace Luchs with:
  - Schützenpanzer Kurz 11-2 20mm Recce Vehicle CWWG-53
(b) Note that in peacetime these units formed part of the divisional recce battalion. Consequently, they are counted twice in some sources, but I have separated them in these TO&Es.

MANOEUVRE ELEMENT CWWG-12
Panzer Reconnaissance Company
(Heeresstruktur 3) (a)

- Command/Recce
  - x1 Schützenpanzer Kurz 22-2 (b) CWWG-54
  - Recce
    - x8 Schützenpanzer Kurz 11-2 (ce) CWWG-53
    - x3 Leopard 1A1/1A2 105mm MBT (df) CWWG-02

(a) When the Heeresstruktur 4 reorganisation was introduced in 1980, the Panzer-Reconnaissance Battalions were among the most radically reorganised major combat units in the Bundeswehr Heer. As consequence, some battalions continued under the Heeresstruktur 3 organisation for some time while they waited for new equipment.

(b) May replace Schützenpanzer Kurz 22-2 Command Vehicle with:
  - Panzerspähwagen Luchs CWWG-12

(c) Most units had replaced the Schützenpanzer Kurz 11-2 20mm Recce Vehicles by the 1980s with:
  - Panzerspähwagen Luchs CWWG-12

(d) May replace Leopard 1A1/1A2 with:
  - Leopard 1A3/1A4 105mm Main Battle Tank CWWG-03
  - Leopard 1A1A1/1A2A1 105mm Main Battle Tank CWWG-64

(e) There were no permanently-organised Brigade Panzer Recce Platoons in the Heeresstruktur 3 organisation, which meant that those units still operating under this organisation from 1980 to 1982 would have to detach x6 Spz 11-2 or SpPz Luchs from each Panzer Recce Company to form the new Brigade Recce Companies required under the Heeresstruktur 4 reorganisation.

(f) For an exact breakdown of tank type by unit and year, refer to Max Wünderlich’s superb reference chart at http://www.fireandfury.com/orbats/BundeswehrTankEquipmentByYear.pdf
During the early 1980s and in Territorial Brigades until the late 1980s, a few units had still not received Pionierpanzer. May therefore replace in these units with:

Pionierpanzer M48A2C 90mm Dozer Tank use CWWG-65

(b) May replace Schnellbrückenpanzer M48 with:
Schnellbrückenpanzer Biber CWWG-13

(a) The Battery may alternatively be deployed as x3 Platoon-sized unit attachments, each of x1 Flakpanzer Gepard.

(b) The Battery may alternatively be deployed as x3 Platoon-sized unit attachments, each of x1 Bofors.

(a) Mid-1980s: Replace Munga with:
Iltis Light Utility Vehicle CWWG-22
MANOEUVRE ELEMENT CWWG-17
SAM Battery

- Command
- x1 Flugabwehrpanzer 1 Roland SAM Vehicle CWWG-15
- x2 Flugabwehrpanzer 1 Roland SAM Vehicle CWWG-15

(a) The Battery may alternatively be deployed as x3 Platoon-sized unit attachments, each of x1 Roland.

MANOEUVRE ELEMENT CWWG-18
Luftwaffe SAM Squadron

- Command
- x1 Commander CWWG-26
- x1 Munga Light Utility Vehicle (a) CWWG-63
- x3 I-Hawk SAM Launcher CWWG-24
- Transport
- x3 Unimog Medium Truck CWWG-23

(a) Mid-1980s: Replace Munga with: Iltis Light Utility Vehicle CWWG-22

MANOEUVRE ELEMENT CWWG-19
Heimatschütz Jäger Company (b)

- Command
- x1 Commander CWWG-26
- x1 Munga Light Utility Vehicle (a) CWWG-63
- x12 Jäger (2 with PzF44) CWWG-59
- Transport
- x4 Unimog Medium Truck or Civilian Truck CWWG-23

(a) Mid-1980s: Replace Munga with: Iltis Light Utility Vehicle (no MG) CWWG-22

(b) There was much talk during the 1980s of these territorial reservist troops being issued with very large numbers of effective anti-tank weapons, such as Milan (much discussed in books such as Hackett’s ‘The Third World War’. However, it is not clear if this plan ever came to fruition.

MANOEUVRE ELEMENT CWWG-20
Heavy Panzer Reconnaissance Company (Heeresstruktur 3) (a)

- Command/Recce
- x1 Commander CWWG-26
- Transport/Recce
- x1 Schützenpanzer Kurz 22-2 (b) CWWG-54
- Recce
- x4 Leopard 1 105mm Main Battle Tank (c) CWWG-02
- Recce
- x6 Panzergrenadiere (2 PzF44) CWWG-27
- Transport/Recce
- x4 Marder 1/1A1 20mm MICV CWWG-16
- Organic Fire Support
- x3 120mm Mortar CWWG-69
- Transport/Recce
- x3 Schützenpanzer Lang 52-3 (d) CWWG-57
- Recce
- x3 Pioniere (1 PzF44) CWWG-28
- Transport/Recce
- x1 M113G Armoured Personnel Carrier (e) CWWG-17

(a) When the Heeresstruktur 4 reorganisation was introduced in 1980, the Panzer-Reconnaissance Battalions were among the most radically reorganised major combat units in the Bundeswehr Heer. As consequence, some battalions continued under the Heeresstruktur 3 organisation for some time while they waited for the new equipment specified under Heeresstruktur 4.

(b) Schützenpanzer Kurz 22-2 Command Vehicles had been replaced in most units by the 1980s with:
- Marder 1/1A1 20mm MICV CWWG-16

(c) May replace Leopard 1 with:
- Leopard 1A3/1A4 105mm Main Battle Tank CWWG-03
- Leopard 1A1A1/1A2A1 105mm Main Battle Tank CWWG-64

(d) Schützenpanzer Lang 52-3 120mm Mortar Carriers had been replaced in most (possibly all) units by the 1980s with:
- Panzermörser 120 Mortar Carrier CWWG-19

(e) Note that the M113G had an MG3 instead of a .50 Cal.

(f) For an exact breakdown of tank type by unit and year, refer to Max Wunderlich’s superb reference chart at http://www.fireandfury.com/orbats/BundeswehrTankEquipmentByYear.pdf
MANOEUVRE ELEMENT CWWG-21
Heavy Panzer Reconnaissance Company (Heeresstruktur 4)

Command/Recce
- x1 Leopard 1A1/1A2 105mm MBT (ab) CWWG-02
- Recce
- x4 Leopard 1A1/1A2 105mm MBT (ab) CWWG-02

(a) May replace Leopard 1A1/1A2 with:
  - Leopard 1A3/1A4 105mm Main Battle Tank CWWG-03
  - Leopard 1A1A1/1A2A1 105mm Main Battle Tank CWWG-64

Or from 1988 with:
  - Leopard 1A5 105mm Main Battle Tank CWWG-04

(b) For an exact breakdown of tank type by unit and year, refer to Max Wünderlich’s superb reference chart at http://www.fireandfury.com/orbats/BundeswehrTankEquipmentByYear.pdf

MANOEUVRE ELEMENT CWWG-22
Mixed Panzer Reconnaissance Company (Heeresstruktur 4)

Command/Recce
- x1 Transportpanzer 1 Fuchs APC (a) CWWG-21
- Recce
- x8 Panzerspähwagen Luchs (b) CWWG-12
- Recce
- x2 Leopard 1A1/1A2 105mm MBT (cd) CWWG-02

(a) Some units persisted in using obsolete equipment until 1982. In which case, replace Transportpanzer 1 Fuchs with:
  - Schützenpanzer Kurz 22-2 Command Vehicle CWWG-54

(b) Some units persisted in using obsolete equipment until 1982. In which case, replace Panzerspähwagen Luchs with:
  - Schützenpanzer Kurz 11-2 20mm Recce Vehicle CWWG-53

(c) May replace Leopard 1A1/1A2 with:
  - Leopard 1A3/1A4 105mm Main Battle Tank CWWG-03
  - Leopard 1A1A1/1A2A1 105mm Main Battle Tank CWWG-64

Or from 1988 with:
  - Leopard 1A5 105mm Main Battle Tank CWWG-04

(d) For an exact breakdown of tank type by unit and year, refer to Max Wünderlich’s superb reference chart at http://www.fireandfury.com/orbats/BundeswehrTankEquipmentByYear.pdf

MANOEUVRE ELEMENT CWWG-23
Panzer Reconnaissance Jäger Company (Heeresstruktur 4)

Command/Recce
- x1 Commander CWWG-26
- Recce
- x9 Jäger (No Carl Gustav & 3 PzF44) CWWG-59
- Recce
- x1 Milan ATGM Team (ab) CWWG-30
- Transport/Recce
- x4 Transportpanzer 1 Fuchs APC (a) CWWG-21

(a) Milan may be fired from Fuchs APC when mounted.

(b) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).

MANOEUVRE ELEMENT CWWG-24
Light SAM Battery (b)

Command
- x1 Commander CWWG-26
- Transport
- x1 Munga Light Utility Vehicle (a) CWWG-63
- x12 Fliegerfaust 1 SAM Team CWWG-58
- Transport
- x4 Unimog Medium Truck CWWG-23

(a) Mid-1980s: Replace Munga with:
  - Iltis Light Utility Vehicle CWWG-22

(b) The Battery may alternatively be deployed as x4 Platoon-sized MEs, each of x3 Fliegerfaust 1 SAM. Designate x1 SAM in each Platoon as the Platoon Commander.
MANOEUVRE ELEMENT CWWG-25
Security Company (b)

Command
x1 Commander CWWG-26

Transport
x1 Munga Light Utility Vehicle (a) CWWG-63
x9 Jäger (1 with PzF44) CWWG-59

Transport
x3 Unimog Medium Truck or Civilian Truck CWWG-23

(a) Mid-1980s: Replace Munga with:
Iltis Light Utility Vehicle (no MG) CWWG-22

(b) Some regular units may add:
x1 FK-20-2 Twin 20mm Antiaircraft Gun CWWG-52
x1 Unimog Medium Truck CWWG-23

MANOEUVRE ELEMENT CWWG-26
Aviation Protection Squadron (Flak)

Command
x1 Commander CWWG-26

Transport
x1 Munga Light Utility Vehicle (a) CWWG-63
x4 FK-20-2 Twin 20mm AA Gun CWWG-52

Transport
x4 Unimog Medium Truck CWWG-23

(a) Mid-1980s: Replace Munga with:
Iltis Light Utility Vehicle (no MG) CWWG-22

MANOEUVRE ELEMENT CWWG-27
Aviation Protection Squadron

Command
x1 Commander CWWG-26

Transport
x1 Munga Light Utility Vehicle (a) CWWG-63
x12 Jäger (4 with PzF44) CWWG-59

Transport
x4 Unimog Medium Truck CWWG-23

(a) Mid-1980s: Replace Munga with:
Iltis Light Utility Vehicle (no MG) CWWG-22

MANOEUVRE ELEMENT CWWG-28
Aviation Protection Platoon

Command
x1 Jäger (No Carl Gustav or PzF44) CWWG-59
x2 Jäger (No Carl Gustav, 1 with PzF44) CWWG-59
x1 FK-20-2 Twin 20mm AA Gun CWWG-52

Transport
x2 Unimog Medium Truck CWWG-23
MANOEUVRE ELEMENT CWWG-29

Long-Range Scout Company (a)

- Command/Recce
  - x1 Commander: CWWG-26
- Recce
  - x24 Fernspähpatrouille (4 PzF 44) (bc): CWWG-77

(a) Each of the three regular West German Corps had its own Fernspähkompanie (Long-Range Scout Company), which would conduct stay-behind and airborne reconnaissance missions behind enemy lines. Information on their organisation and equipment is scant beyond the basic organisation of four platoons per company.

(b) May alternatively be deployed as x4 separate platoon-sized MEs, each of x6 Fernspäh Patrols. Designate one Fernspäh Patrol unit in each platoon as the Platoon Commander.

(c) It’s reasonably safe to assume that like most country’s special forces, the Fernspäh could adapt their organisation and equipment according to the mission. May therefore replace any Fernspäh unit with:

- Milan ATGM Team (d): CWWG-30
- 81mm Mortar: CWWG-34
- MG3 General-Purpose Machine Gun: CWWG-36
- Fliegerfaust 1 SAM Team: CWWG-58

(d) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).

MANOEUVRE ELEMENT CWWG-30

Artillery Regiment Escort Battery

- Command
  - x1 Commander: CWWG-26
- Transport
  - x1 Munga Light Utility Vehicle (a): CWWG-63
  - x3 FK-20-2 Twin 20mm AA Guns: CWWG-52
- Transport
  - x3 Unimog Medium Truck: CWWG-23
  - x9 Jäger (No Carl Gustav, 3 with PzF44): CWWG-59
  - x3 Unimog Medium Truck: CWWG-23

(a) Mid-1980s: Replace Munga with:
- Iltis Light Utility Vehicle (no MG): CWWG-22

MANOEUVRE ELEMENT CWWG-31

Artillery Battalion Escort Platoon

- Command
  - x1 Jäger (No Carl Gustav or PzF44): CWWG-59
  - x2 Jäger (No Carl Gustav, 1 with PzF44): CWWG-59
  - x2 FK-20-2 Twin 20mm AA Guns: CWWG-52
- Transport
  - x3 Unimog Medium Truck: CWWG-23

MANOEUVRE ELEMENT CWWG-32

Divisonal NBC Defence Company (c)

- Command
  - x1 Commander: CWWG-26
- Transport/Recce
  - x1 Transportpanzer 1 Fuchs APC (a): CWWG-21
  - x2 Transportpanzer 1 Fuchs APC (a): CWWG-21
  - x4 FK-20-2 Twin 20mm AA Gun: CWWG-52
- Transport
  - x4 Unimog Medium Truck: CWWG-23

(a) These are specialist NBC reconnaissance and detection variants of the Transportpanzer 1 Fuchs.


Luftwaffe Air Support Assets

1. Luftwaffe-Division

Luftwaffe Division 1 'Immelmann'  
- 2x Sqns, each with 9x RF-4E Phantom II  
  Use CWWG-41

Jagdbombergeschwader 32 (g) (1984)  
- 2x Sqns, each with 9x F-104G Starfighter  
  CWWG-45

Jagdbombergeschwader 33 (g) (1985)  
- 2x Sqns, each with 9x F-104G Starfighter  
  CWWG-45

Jagdbombergeschwader 34 (g) (1987)  
- 2x Sqns, each with 9x F-104G Starfighter  
  CWWG-45

Jagdbombergeschwader 35  
- 2x Sqns, each with 9x F-4F Phantom II  
  CWWG-41

Jagdbombergeschwader 39 (a)  
- 2x Sqns, each with 9x Tornado MRCA  
  CWWG-44

Jagdbombergeschwader 44 (b)  
- 2x Sqns, each with 9x Alpha-Jet  
  CWWG-42

Jagdbombergeschwader 49 (cj) (1980-83)  
- 2x Sqns, each with 12x G-91R/3 'Gina'  
  CWWG-43

Flugkörperschwader 1  
- 18 Pershing 1A Nuclear Missiles

2. Luftwaffe-Division  

Jagdbombergeschwader 74 'Molders' (e)  
- 2x Sqns, each with 9x F-4F Phantom II  
  CWWG-41

3. Luftwaffe-Division

Luftwaffe Division 3  

Aufklärungsgeschwader 52 'Boelcke' (g) (1983)  
- 2x Sqns, each with 9x F-104G Starfighter  
  CWWG-45

Jagdbombergeschwader 36  
- 2x Sqns, each with 9x F-4F Phantom II  
  CWWG-41

Jagdbombergeschwader 38 (i)  
- 2x Sqns, each with 9x Tornado MRCA  
  CWWG-44

Jagdbombergeschwader 41 (jk) (1982)  
- 2x Sqns, each with 12x G-91R/3 'Gina'  
  CWWG-43

Jagdbombergeschwader 43 (j) (1980)  
- 2x Sqns, each with 12x G-91R/3 'Gina'  
  CWWG-43

Flugkörperschwader 2  
- 18 Pershing 1A Nuclear Missiles

4. Luftwaffe-Division  

Jagdbombergeschwader 71 'Richthofen' (e)  
- 2x Sqns, each with 9x F-4F Phantom II  
  CWWG-41

Reserves (Late 1980s)

F-104 Kommando (f)  
- 2x Sqns, each with 9x F-104G Starfighter  
  CWWG-45

Helicopters

Hubschraubertransportgeschwader 64 (h)  
- 3x Sqns, each with 12x to 20x UH-1D  
  CWWG-39

(a) This wing was formed in 1989 to take command of the Luftwaffe portion of the Tri-National Tornado Training Establishment (TTTE) at RAF Cottesmore in the UK.

(b) This wing was formed to take command of the Alpha Jets and crews from the Luftwaffe Operational Conversion Unit at Beja, Portugal, plus reservists. Beja only had 9x Alpha-Jets, so the remainder would be taken up from reserve stocks (with sufficient time!).

(c) This wing would be formed partly from training units.

(d) 2. and 4. Luftwaffe-Divisionen were primarily responsible for SAM units and radar sites and each only had a single wing of air defence fighters assigned to it.

(e) Air defence fighter wing.

(f) Following the introduction of Tornado, a temporary F-104 wing was formed for reserve pilots and those pilots deemed to be too late in their careers to make the switch to Tornado.

(g) These units converted during the 1980s from F-104G Starfighter to Tornado MRCA (CWWG-44) during the year indicated in parentheses.

(h) HTG 64’s helicopters were primarily concerned with the Search and Rescue, Combat Search and Rescue, air ambulance, training and liaison roles and thus will not normally appear in a ‘Battlefront’ game. Most battlefield helicopter roles were taken by the Heer aviation units.

(i) Jagdgeschwader 38 was formed as a front-line Tornado wing in 1984 from the Luftwaffe’s Tornado training unit, when training duties passed to TTTE in the UK.

(j) These units converted from G-91R/3 ‘Gina’ to Alpha-Jet (CWWG-42) during the year indicated in parentheses. Where two years are shown, this is due to a staggered introduction, with one squadron being converted on the first date and the other being converted on the second date.

(k) These squadrons were to be grouped with the Marineflieger, Royal Danish Air Force and other NATO allies under AIRBALTAP Command.
Luftwaffe Ground Defence & SAM Assets

(a) Each Luftwaffe Wing (‘Geschwader’) possessed a large ground close-defence element, consisting of $2 \to 4$ Security Squadrons (organised as ME CWWG-27) and a Flak Battery (organised as ME CWWG-26). Luftwaffe HQs, technical schools, logistics depots, SAM and radar sites and transport wings also had similar defensive organisations.

(b) The Pershing Wings each had $3$ Security Squadrons (ME CWWG-27) and $2$ Flak Batteries (ME CWWG-26).

(c) The five regiments of the Luftwaffe Training Command would provide a further $15$ Flak Batteries (ME CWWG-26).

(d) The Luftwaffe SAM organisation is somewhat difficult to pin down, as they underwent a major reorganisation in 1987 and again in 1989. Some older types were being retired in 1989 to await the arrival of Patriot SAMs in the early 1990s. Essentially there were approximately $15 \to 20$ SAM Battalions, each with $4$ or $6$ SAM Batteries, organised as per ME CWWG-18 with Hawk SAMs. However, a few battalions were still using ancient Nike-Hercules SAMs in fixed locations. The vast majority of these SAMs will never be seen in a ‘Battlefront’ game, as they were defending fixed locations and spread across the dense ‘SAM-Belt’ that stretched from north to south across West Germany.

(e) However, $3$ Luftwaffe SAM Battalions were mobile battalions, equipped with the Marder-mounted Roland SAM system, as used by the Heer air defence units, and might therefore be seen in a ‘Battlefront’ game, supplementing or in lieu of Heer air defence units. These battalions each had $6$ SAM Batteries, organised as per ME CWWG-17.

Marineflieger Assets

| Marinefliegergeschwader 1 (ab) (1982) | - 2 Sqns, each with 12 F-104G Starfighter | CWWG-45 |
| Marinefliegergeschwader 2 (ab) (1986) | - 2 Sqns, each with 12 F-104G Starfighter | CWWG-45 |

(a) The bulk of Marineflieger assets came under the command of NATO’s AIRBALTAP Command, along with two Luftwaffe wings (AG 51 and JBG 42), the bulk of the Royal Danish Air Force and elements from other NATO allies such as the UK and USA.

(b) The Marineflieger wings upgraded from F-104G Starfighter to Tornado MRCA during the years shown in parentheses.

(c) The Marineflieger also possessed 3 SAM Squadrons (Hawk), organised as ME CWWG-18.

(d) The Marineflieger had a similar ground defence structure to the Luftwaffe, with each wing being defended by 2 Security Companies (as ME CWWG-27), a Light Flak Battery (as ME CWWG-26) and a Bofors Flak Battery (as ME CWWG-16). The Bofors Flak Batteries were replaced by Marder-mounted Roland SAMs from 1988-1990 (as ME CWWG-17).
(a) Early 1980s: Some units persisted in using obsolete vehicles. May therefore replace OP vehicle with:
   Schützenpanzer Kurz 22-2 Command/OP Vehicle CWWG-54
   M113G Armoured Personnel Carrier (c) CWWG-17

(b) Late 1980s: Redundant Kanonenjagdpanzers were converted into artillery OP vehicles. Although most of these went to 120mm Panzer Mortar Companies, the odd one was issued to SP artillery. May therefore replace OP vehicle with:
   Beobachtungspanzer CWWG-11

(c) Note that West German M113 variants were fitted with the MG3 instead of the M2 .50 Cal.

On non-airborne missions, may replace KraKa transports with:
   Munga Light Utility Vehicle CWWG-63
   Or from mid-1980s with:
   Iltis Light Utility Vehicle (no MG) CWWG-22

(a) On non-airborne missions, may replace KraKa transports with:
   Munga Light Utility Vehicle CWWG-63
   Or from mid-1980s with:
   Iltis Light Utility Vehicle (no MG) CWWG-22
Early 1980s: Some units (particularly in reservist formations) persisted with obsolete vehicles. May therefore replace Panzermörser 120 with:

- Schützenpanzer Lang 52-3 120mm Mortar Carrier CWWG-57

And OP/Command vehicles with:

- Schützenpanzer Kurz 22-2 Command/OP Vehicle CWWG-54

Note that West German M113 variants were fitted with the MG3 instead of the M2 .50 Cal.

May replace Beobachtungspanzer with:

- M113G Armoured Personnel Carrier CWWG-17
- FSE CWWG-15
- Panzer Mortar Company

Command
- x1 Commander CWWG-26

Transport
- x1 M113G Armoured Personnel Carrier (b) CWWG-17
- x1 Forward Observer CWWG-33
- x3 Panzermörser 120 Mortar Carrier (ab) CWWG-19
- x3 Brandt 120mm Mortar CWWG-69

On-Table Attachment/Recce
- x1 Beobachtungspanzer (ac) CWWG-11

Fire Support
- x3 105mm Gebirgshaubitze M56 (b) CWWG-67

Transport/Recce
- x3 Unimog Medium Truck (b) CWWG-23

(a) Early 1980s: Some units (particularly in reservist formations) persisted with obsolete vehicles. May therefore replace Panzermörser 120 with:

- Schützenpanzer Lang 52-3 120mm Mortar Carrier CWWG-57
- Schützenpanzer Kurz 22-2 Command/OP Vehicle CWWG-54

(b) Note that West German M113 variants were fitted with the MG3 instead of the M2 .50 Cal.

(c) May replace Beobachtungspanzer with:

- M113G Armoured Personnel Carrier CWWG-17

Mid-1980s: Replace Munga with:

- Iltis Light Utility Vehicle (no MG) CWWG-22

(b) In Heimatschütz Regimental Mortar Companies, increase to x9 120mm Mortar and x9 Unimog.

(b) Late-1980s: It was intended that the Mountain Artillery Battalions would convert to FH-70 155mm Howitzers. However, this conversion never took place.

(c) In Mountain Artillery Battalions: may replace Unimog trucks with:

- Pack Mules

(d) Although the Bundeswehr had only a single Airlanding Battery, the 1st Airlanding Division HQ retained an Airlanding Artillery Regiment HQ in the event of multiple artillery batteries being assigned to a single brigade.
West German Card List & Model Availability


CWWG-01 – Mittlerer Panzer M48A2GA2 Patton 105mm Medium Tank
QRF, FoW (both Israeli M48 105mm, which are reasonably close)

CWWG-02 – Kampfpanzer Leopard 1A1/A2 105mm Main Battle Tank
RMM, QRF, AA (coming soon)

CWWG-03 – Kampfpanzer Leopard 1A3/A4 105mm Main Battle Tank
QRF, RMM, FoW

CWWG-04 – Kampfpanzer Leopard 1A5 105mm Main Battle Tank
QRF (coming soon)

CWWG-05 – Kampfpanzer Leopard 2 120mm Main Battle Tank
QRF, RMM, FoW

CWWG-06 – Pionierpanzer Leopard Armored Engineer Vehicle

CWWG-07 – Kanonenjagdpanzer 4 S-90mm Assault Gun
RMM, QRF

CWWG-08 – Raketenjagdpanzer 2 SS-11 ATGM Vehicle
RMM

CWWG-09 – Raketenjagdpanzer Jaguaar 1 HOT ATGM Vehicle
QRF, RMM, FoW

CWWG-10 – Raketenjagdpanzer Jaguaar 2 M220 TOW ATGM Vehicle
QRF, FoW

CWWG-11 – Beobachtungspanzer Forward Observation Vehicle
RMM, QRF (cut the gun off the Kanonenjagdpanzer)

CWWG-12 – Panzerspähwagen Luchs 30mm Armored Car
QRF, FoW

CWWG-13 – Schnellbrückenpanzer Biber Armored Vehicle-Launched Bridge
RMM

CWWG-14 – Flakpanzer Gepard Twin 35mm AA Vehicle
QRF, RMM, FoW

CWWG-15 – Flugabwehrpanzer 1 Roland SAM Vehicle
QRF, RMM, FoW

CWWG-16 – Schützenpanzer Marder 1/1A1/1A2 20mm Infantry Combat Vehicle
QRF, RMM, FoW

CWWG-17 – Manschaftstransportwagen M113G Armored Personnel Carrier
QRF, PP, SOG, RMM, FoW (replace .50 Cal with MG3 GPMG)

CWWG-18 – Mörserträger M125 81mm Mortar Carrier
QRF, RMM, FoW (replace .50 Cal with MG3 GPMG)

CWWG-19 – Panzermörser 120 (M113 120mm Mortar Carrier)
QRF, RMM, FoW (replace .50 Cal with MG3 GPMG)

CWWG-20 – Gefechtssandpanzer M577A1G Armored Command Vehicle
QRF, RMM, PP, SOG, FoW

CWWG-21 – Transpanserpanzer 1 Fuchs Armored Personnel Carrier
QRF, RMM, FoW

CWWG-22 – Iltis Light Utility Vehicle
RMM

CWWG-23 – Unimog Medium Truck
PP, RMM, QRF

CWWG-24 – I-Hawk SAM
QC

CWWG-25 – Bofores L70 40mm Antiaircraft Gun

CWWG-26 – Kommandeur
QRF, RMM, FoW

CWWG-27 – Panzergrenadiere (Pz44 or Armbrust)
QRF, RMM, FoW

CWWG-28 – Pioniere (Pz44)
QRF, RMM, FoW

CWWG-29 – Fallschirmjäger (Pz44 or Armbrust)
QRF, RMM, FoW

CWWG-30 – Milan ATGM Team
QRF, FoW

CWWG-31 – Schützenpanzer Marder 1A3 20mm Infantry Combat Vehicle
PP, QRF

CWWG-32 – Leichtgeschütz M40 106mm Recoilless Rifle

CWWG-33 – Beobachter

CWWG-34 – 81mm Mortar
RMM

CWWG-35 – Mo-120-RT 120mm Mortar
QRF, RMM, FoW

CWWG-36 – MG3 Light Machine Gun
QRF, RMM, FoW

CWWG-37 – Bo-105V BH Observation/Liaison Helicopter
Italeri, RMM, FoW

CWWG-38 – Bo-105P PAH-1 Attack Helicopter
Italeri, RMM, FoW

CWWG-39 – UH-1D Iroquois Utility Helicopter
QRF, Revell, RMM

CWWG-40 – CH-53J Jolly Green Giant Transport Helicopter
RMM

CWWG-41 – F-4F Phantom II Fighter-Bomber
Revell, Tamiya, RMM

CWWG-42 – Alpha-Jet Light Ground Attack Aircraft
Italeri, Revell, Heller, RMM

CWWG-43 – G-91 R3 ‘Gina’ (‘Schwein’) Light Ground Attack Aircraft
Revell, Heller, Tamiya

CWWG-44 – Tornado MRCA All-Weather Ground Attack Aircraft
Italeri, Revell

CWWG-45 – F-104G Starfighter Fighter-Bomber
Italeri, Revell, Tamiya, RMM

Continued Overleaf
West German Cards Continued:

CWWG-46 – KraKa Airborne Weapons Carrier  
CWWG-47 – KraKa TOW Airborne Antitank Vehicle (M220 TOW ATGM)  
CWWG-48 – KraKa MK 20mm Airborne 20mm Fire Support/AA Vehicle  
CWWG-49 – Radarpfanzer Kurz 91-2 Radar Reconnaissance Vehicle  
CWWG-50 – Wiesel 1A0 TOW Airborne Antitank Vehicle (M220 TOW ATGM)  
CWWG-51 – Wiesel 1A0 MK Airborne 20mm Fire Support/AA Vehicle  
CWWG-52 – FK20-2 Twin 20mm Anti-aircraft Gun  
CWWG-53 – Schützenpanzer Kurz 11-2 20mm Reconnaissance Vehicle  
CWWG-54 – Schützenpanzer Kurz 22-2 Command/OP Vehicle  
CWWG-55 – Schützenpanzer Kurz 51-2 81mm Mortar Carrier  
CWWG-56 – Schützenpanzer Lang 12-3 20mm Armoured Personnel Carrier  
CWWG-57 – Schützenpanzer Lang 52-3 120mm mortar Carrier  
CWWG-58 – Fliegerfaust 1 SAM Team (Redeye)  
CWWG-59 – Jäger Light Infantry (Pzf44 & Carl-Gustav)  
CWWG-60 – Panzergrenadiere (MTW) (Pzf44 & Milan)  
CWWG-61 – Gebirgsjäger Mountain Infantry (Pzf44 or Armbrust & Carl-Gustav)  
CWWG-62 – M548A2G Skorpion Minelaying Vehicle  
CWWG-63 – Munga Light Utility Vehicle  
CWWG-64 – Kampfpanzer Leopard 1A1A1/1A2A1 105mm Main Battle Tank  
CWWG-65 – Mittlerepanzer M48A2C Patton 90mm Medium Tank  
CWWG-66 – Panzerbeobachtungswagen M113 Forward Observation Vehicle  
CWWG-67 – 105mm Gebirgshaubitze Modell 56  
CWWG-68 – Schnellbrückenpanzer M48 Armoured Vehicle-Launched Bridge  
CWWG-69 – Tampella 120mm Mortar  
CWWG-70 – Transportpanzer 1 Fuchs PARA Radar Reconnaissance Vehicle  
CWWG-71 – Spähpanzer M41 76mm Light Tank  
CWWG-72 – Mittlerepanzer M47 90mm Medium Tank  
CWWG-73 – Raketenjagdpanzer 1 SS-11 ATGM Vehicle  
CWWG-74 – Flakpanzer M42 Twin 40mm Anti-Aircraft Tank  
CWWG-75 – Kampfpzwerzer Leopard 2A4 120mm Main Battle Tank  
CWWG-76 – Fernspähler Long-Range Scout Patrol (Pzf 44)  
CWWG-77 – Alouette II Observation Helicopter